

# DOCUMENTED CHROMOSOME NUMBERS 2005: 1. MISCELLANEOUS COUNTS FROM WESTERN TEXAS, MOSTLY TRANS-PECOS

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## ABSTRACT

Twenty-seven meiotic chromosome counts are reported for 20 species in nine families of plants from western Texas, mostly the Trans-Pecos region. The counts for *Pachera texensis*, *Chamaesyce strictospora*, *Astragalus argillophilus*, *A. bigelovii*, and *A. marcidus* are first reports.

## RESUMEN

Se publican veintisiete recuentos cromosómicos en meiosis de 20 especies de nueve familias de plantas del Oeste de Texas, la mayoría de la región de Trans-Pecos. Los recuentos de *Pachera texensis*, *Chamaesyce strictospora*, *Astragalus argillophilus*, *A. bigelovii*, y *A. marcidus* son los primeros realizados.

Bud collections were obtained and the following chromosome number determinations were made during the course of floristic fieldwork in Trans-Pecos, Texas, and nearby areas of the state. Meiotic chromosome counts were produced by the first author, or in some cases initiated by the collector cited and verified by AMP, using techniques described in Turner and Johnston (1961); the second author also verified many of the counts. We acknowledge the collections and chromosomal observations of E.F. McRae, W. Jacobs, D. Foster, and S.A. Powell. Vouchers are in SRSC and/or TEX.

### Asteraceae

*Bahia absinthifolia* Benth.  $2n = 24$  II. Brewster Co.: 11.2 km ENE of Lajitas along Hwy 170, B.L. Turner 24-45.

*Pachera texensis* O'Kennon & Trock.  $2n = 23$  II. Gillespie Co.: 2.4 km N of Keese-Sagebeil Road, ca. 1.3 km N of type locality, B.L. Turner 24-75.

*Psathyrotopsis scaposa* (A. Gray) H. Rob.  $2n = 19$  II. Hudspeth Co.: ca. 5.1 km SE of intersect. of Hwy 192 (to Indian Hot Springs) with Quitman Pass road, B.L. Turner 24-358.

*Solidago gigantea* Aiton.  $2n = 9$  II. Presidio Co.: 3.5 km NNE of Ruidosa, B.L. Turner 23-181.

### Brassicaceae

*Sireptanthus playtcarpus* A. Gray.  $2n = 14$  II. Crockett Co.: ca. 12.9 km E of Sheffield, roadside park along U.S. 90, where it drops off into Pecos River Valley, B.L. Turner 21-202.

### Cactaceae

*Opuntia macrocentra* Engelm.  $2n = 11$  II. Culberson Co.: 3.2 km N of Kent, B.L. Turner s.n.

### Euphorbiaceae

*Chamaesyce stictospora* (Engelm.) Small.  $2n = 6$  II. Pecos Co.: 40 km N of U.S. 67 and U.S. 90 junct., along U.S. 90. E.F. McRae 14.

*Chamaesyce theriaca* (L.C. Wheeler) Shummers.  $2n = 14$  II. Presidio Co.: 19 km W of Redford. E.F. McRae 37.

### Fabaceae

*Astragalus argillophilus* Cory.  $2n = 11$  II. Reagan Co.: ca. 1.9 km S of Big Lake. B.L. Turner 24-41.

*Astragalus bigelovii* A. Gray.  $2n = 11$  II. Hudspeth Co.: ca. 12.9 km W of Sierra Blanca. B.L. Turner 24-42.

*Astragalus manicidus* Greene ex Rydb.  $2n = 11$  II. Presidio Co.: N of Marfa, 5.9 km S of Jeff Davis Co. line. B.L. Turner 24-43; near head of Pinto Canyon, 48 km SW of Marfa. B.L. Turner 24-404.

*Astragalus mollissimus* Torr. var. *earlei* (Greene ex Rydb.) Tidestr.  $2n = 11$  II. Hudspeth Co.: ca. 3.2 km E of Sierra Blanca. B.L. Turner 24-26.

### Hydrophyllaceae

*Phacelia coerula* Greene.  $2n = 11$  II. Hudspeth Co.: ca. 12.9 km W of Sierra Blanca. B.L. Turner 24-43.

*Phacelia integrifolia* Torr.  $2n = 11$  II. Crane Co.: 16.4 km W of Crane. B.L. Turner 24-61.

*Phacelia poppei* Torr. & A. Gray.  $2n = 11$  II. Brewster Co.: ca. 8 km along Agua Fria road from Hwy 118. B.L. Turner 21-34.

*Phacelia robusta* (J.F. Macbr.) I.M. Johnst.  $2n = 11$  II. Brewster Co.: ca. 12 km along Agua Fria road from Hwy 118. B.L. Turner 21-36.

### Liliaceae

*Schoenocaulon texanum* Scheele.  $2n = 8$  II. Pecos Co.: Glass Mts., R. Warnock Park, ca. 4.3 km S of Fort Stockton. B.L. Turner 24-470.

### Ranunculaceae

*Delphinium wootonii* Rydb.  $2n = 8$  II. Brewster Co.: 4.2 km S of Alpine. A.M. Powell 6427.

### Solanaceae

*Chamaesaracha coniodes* Britton.  $2n = 24$  II. Brewster Co.: Alpine, above Kokernot Lodge. A.M. Powell and S.A. Powell 6281, 6282, 6283 (counts from three individual plants).

*Chamaesaracha sordida* (Dunal) A. Gray.  $2n = 12$  II. Brewster Co.: Sul Ross State University campus, W. Jacobs and D. Foster 6; sidewalk above Kokernot Springs. B.L. Turner 99-95; Alpine, near Kokernot Lodge. A.M. Powell and S.A. Powell 6279, 6280 (counts from two individual plants); 14.5 km SE of Alpine. A.M. Powell and S.A. Powell 5548.

### ACKNOWLEDGMENTS

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### REFERENCES

- TURNER, B.L. and M.C. JOHNSTON. 1961. Chromosome numbers in the Compositae. III. Certain Mexican species. *Brittonia* 13:64-69.